



API-580 Practice Questions

Shared by Lester on 14-10-2026

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Question 1

Question Type: MultipleChoice

Thinning causes the loss of material from

Options:

- A- External surfaces only
- B- Internal surfaces only
- C- External or internal surfaces

Answer:

A

Question 2

Question Type: MultipleChoice

_____ delineate initiating events and combinations of system

Options:

- A- Event trees
- B- Fault trees
- C- Logic trees

Answer:

A

Question 3

Question Type: MultipleChoice

Loss of containment is

Options:

- A- Loss of fluid to the external environment
- B- Container loss at the port authority
- C- Risk related to containers
- D- B& C

Answer:

A

Question 4

Question Type: MultipleChoice

_____ represents the next generation of inspection approaches and interval setting, recognizing that the ultimate goal of inspection is the safety and reliability of operating facilities

Options:

- A- Rbi
- B- Pha
- C- Hazop
- D- Rcm

Answer:

A

Question 5

Question Type: MultipleChoice

A physical condition or a release of a hazardous material that could result from component failure and result in human injury or death, loss or damage, or environmental degradation

Options:

- A- Hazard
- B- Loss
- C- Failure

Answer:

A

Question 6

Question Type: MultipleChoice

_____ are the primary inputs into the probability of failure evaluation.

Options:

- A- The deterioration mechanisms, rates and susceptibilities
- B- Loss of containment f fluid
- C- Fluid toxicity and its concentration
- D- Damage mechanisms and its severity

Answer:

A

Question 7

Question Type: MultipleChoice

When some risk identified as acceptable then one of the following is not required.

Options:

- A- Risk reduction
- B- Risk evaluation
- C- Risk mitigation
- D- Risk control

Answer:

C

Question 8

Question Type: MultipleChoice

Failure mode can primarily affects the

Options:

- A- Magnitude
- B- Consequences
- C- A&B

Answer:

A

Question 9

Question Type: MultipleChoice

Method used for consequence analysis should demonstrate the ability to provide

Options:

- A- Just an analysis
- B- No output is required
- C- The required level of discrimination between higher and lower consequence equipment items.

Answer:

C

Question 10

Question Type: MultipleChoice

The primary audience for rp 580 is

Options:

- A- Inspection and materials engineering personnel
- B- Maintenance personnel
- C- Only inspection personnel
- D- Only materials engineering personnel

Answer:

C

Question 11

Question Type: MultipleChoice

Reliability efforts, such as reliability centered maintenance (rem), can be linked with rbi, resulting in an integrated program to

Options:

- A- Reduce downtime in an operating unit
- B- Reduce operating time of a unit
- C- To reduce risk by mitigation activities

Answer:

A

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